

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

Listing of Claims

1. (Currently Amended) A non-transitory computer-readable medium having a data structure for managing reproduction of still images, comprising:

a data area storing a first clip stream file and a second clip stream file, the first clip stream file including video data for reproducing the still images including a first still image and a second still image, the second clip stream file including audio data;

a playlist area storing at least one playlist file, the playlist file including mark information and at least one playitem and at least one sub-playitem, the mark information providing presentation information on the second still image to provide for at least skipping from reproducing the first still image to reproducing the second still image, the playitem indicating an in-~~point~~time and an out-~~point~~time of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-~~point~~time and an out-~~point~~time of the second clip stream file for reproducing the audio data, the playitem managing the first and the second still images and the sub-playitem managing the audio data so as to permit independent reproduction of the first and the second still images and the audio data, the playitem including a format indicator indicating a coding format of the first clip stream file, the playlist file including type information indicating whether or not the audio data associated with the sub-playitem is usable for the still images, and the playlist file including first still information indicating whether to display at least one still image for one of a finite and an infinite period of time; and

a management area storing at least a first clip information file and a second clip information file, the first clip information file including mapping information between a presentation time and a unit of the first clip stream file, the second clip information file including mapping information between a presentation time and a unit of the second clip stream file, the first and second clip information files corresponding to the first and second clip stream files, respectively.

2. (Currently Amended) The non-transitory computer-readable medium of claim 1, wherein the mark information includes a first mark associated with the first still image and a second mark associated with the second still image, the first and second marks providing the presentation information on the first and second still images, respectively, and

the mark information indicates a number of marks in the mark information.

3. (Currently Amended) The non-transitory computer-readable medium of claim 2, wherein the first mark includes a first indicator indicating a playitem where the first mark is placed, and wherein the second mark includes a second indicator indicating a playitem where the second mark is placed.

4. (Currently Amended) The non-transitory computer-readable medium of claim 2, wherein the first mark includes a first indicator indicating a point in a playitem where the first mark is placed and wherein the second mark includes a second indicator indicating a point in a playitem where the second mark is placed.

5. (Currently Amended) The non-transitory computer-readable medium of claim 2, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark.

6. (Currently Amended) The non-transitory computer-readable medium of claim 2, wherein ~~the mark information indicates a number of marks in the mark information~~ the at least one still image is reproduced independently from the audio data based on the playlist file, and the playlist file is separated from the first and second clip stream files.

7. (Currently Amended) The non-transitory computer-readable medium of claim 2~~1~~, wherein the playlist file includes second still information indicating a duration of the still image when the first still information indicates to display the still picture for the finite period of time. ~~the first mark points to the first still image and the second mark points to the second still image.~~

8-11. (Cancelled)

12. (Currently Amended) A method of reproducing a data structure for managing reproduction of still images recorded on a non-transitory computer-readable medium, comprising:

reproducing a first clip stream file and a second clip stream file, the first clip stream file including video data for reproducing the still images including a first still image and a second still image, the second clip stream file including audio data;

reproducing at least one playlist file, the playlist file including mark information and at least one playitem and at least one sub-playitem, the mark information

providing presentation information on the second still images to provide for at least skipping from reproducing the first still image to reproducing the second still image, the playitem indicating an in-~~point~~time and an out-~~point~~time of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-~~point~~time and an out-~~point~~time of the second clip stream file for reproducing the audio data, the playitem managing the first and the second still images and the sub-playitem managing the audio data so as to permit independent reproduction of the first and the second still images and the audio data, the playitem including a format indicator indicating a coding format of the first clip stream file, the playlist file including type information indicating whether or not the audio data associated with the sub-playitem is usable for the still images, and the playlist file including first still information indicating whether to display at least one still image for one of a finite and an infinite period of time; and

reproducing at least a first clip information file and a second clip information file, the first clip information file including a mapping information between a presentation time and a unit of the first clip stream file, the second clip information file including mapping information between a presentation time and a unit of the second clip stream file, the first and second clip information files corresponding to the first and second clip stream files, respectively.

13. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of still images recorded on a non-transitory computer-readable medium, comprising:

a pick up configured to reproduce data recorded on the non-transitory computer-readable medium; and

a controller configured to control the pick up to reproduce a first clip stream file and a second clip stream file, the first clip stream file including video data for reproducing the still images including a first still image and a second still image, the second clip stream file including audio data,

the controller configured to control the pick up to reproduce at least one playlist file, the playlist file including mark information and at least one playitem and at least one sub-playitem, the mark information providing presentation information on the second still image to provide for at least skipping from reproducing the first still image to reproducing the second still image, the playitem indicating an in-~~point~~time and an out-~~point~~time of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-~~point~~time and an out-~~point~~time of the second clip stream file for reproducing the audio data, the playitem managing the first and the second still images and the sub-playitem managing the audio data so as to permit independent reproduction of the first and the second still images and the audio data, the playitem including a format indicator indicating a coding format of the first clip stream file, the playlist file including type information indicating whether or not the audio data associated with the sub-playitem is usable for the still images, and the playlist file including first still information indicating whether to display at least one still image for one of a finite and infinite period of time, and

the controller configured to control the pick up to reproduce a first clip information file including mapping information between a presentation time and a unit of the first clip stream file, and a second clip information file including mapping information between a presentation time and a unit of the second clip stream file, the first and second clip information files corresponding to the first and second clip stream files, respectively.

14. (Currently Amended) A method of recording a data structure for managing reproduction of still images on a non-transitory computer-readable medium, comprising:

recording a first clip stream file and a second clip stream file, the first clip stream file including video data for reproducing the still images including a first still image and a second still image, the second clip stream file including audio data;

recording at least one playlist file, the playlist file including mark information and at least one playitem and at least one sub-playitem, the mark information providing presentation information on the second still image to provide for at least skipping from reproducing the first still image to reproducing the second still image, the playitem indicating an in-~~point~~time and an out-~~point~~time of the first clip stream file for reproducing the first and the second still images, the sub-playitem indicating an in-~~point~~time and an out-~~point~~time of the second clip stream file for reproducing the audio data, the playitem managing the first and the second still images and the sub-playitem managing the audio data so as to permit independent reproduction of the first and the second still images and the audio data, the playitem including a format indicator indicating a coding format of the first clip stream file, the playlist file including type information indicating whether or not the audio data associated with the sub-playitem is usable for the still images, and the playlist file including first still information indicating whether to display at least one still image for one of a finite and an infinite period of time; and

recording at least a first clip information file and a second clip information file, the first clip information file including mapping information between a presentation time and a unit of the first clip stream file, the second clip information file including mapping information between a presentation time and a unit of the second clip stream

file, the first and second clip information files corresponding to the first and second clip stream files, respectively.

15. (Currently Amended) An apparatus for recording a data structure for managing reproduction of still images on a non-transitory computer-readable medium, comprising:

a pick up configured to record data on the non-transitory computer-readable medium; and

a controller configured to control the pick up to record a first clip stream file and a second clip stream file, the first clip stream file including video data for reproducing the still images including a first still image and a second still image, the second clip stream file including audio data,

the controller configured to control the pick up to record at least one playlist file, the playlist file including mark information and at least one playitem and at least one sub-playitem, the mark information providing presentation information on the second still image to provide for at least skipping from reproducing the first still image to reproducing the second still image, the playitem indicating an in-~~point~~time and an out-~~point~~time of the first clip stream file for reproducing the first and second still images, the sub-playitem indicating an in-~~point~~time and an out-~~point~~time of the second clip stream file for reproducing the audio data, the playitem managing the first and the second still images and the sub-playitem managing the audio data so as to permit independent reproduction of the first and the second still images and the audio data, the playitem including a format indicator indicating a coding format of the first clip stream file, the playlist file including type information indicating whether or not the audio data associated with the sub-playitem is usable for the still images, and the

playlist file including first still information indicating whether to display at least one still image for one of a finite and an infinite period of time, and

the controller configured to control the pick up to record a first clip information file including mapping information between a presentation time and a unit of the first clip stream file, and a second clip information file including mapping information between a presentation time and a unit of the second clip stream file, the first and second clip information files corresponding to the first and second clip stream files, respectively.

16. (Currently Amended) The method of claim 12, wherein the mark information includes a first mark associated with the first image and a second mark associated with the second image, the first and second marks providing the presentation information on the first and second images, respectively, and the mark information indicates a number of marks in the mark information.

17. (Previously Presented) The method of claim 16, wherein the first mark includes a first indicator indicating a playitem where the first mark is placed, and wherein the second mark includes a second indicator indicating a playitem where the second mark is placed.

18. (Previously Presented) The method of claim 16, wherein the first mark includes a first indicator indicating a point in a playitem where the first mark is placed and wherein the second mark includes a second indicator indicating a point in a playitem where the second mark is placed.

19. (Previously Presented) The method of claim 16, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark.

20. (Currently Amended) The method of claim ~~12-16~~, wherein the at least one still image is reproduced independently from the audio data based on the playlist file, and the playlist file is separated from the first and second clip stream files~~mark information indicates a number of marks in the mark information.~~

21. (Currently Amended) The method of claim ~~16~~12, wherein the playlist file includes second still information indicating a duration of the still image when the first still information indicates to display the still picture for the finite period of time~~the first mark points to the first still image and the second mark points to the second still image.~~

22. (Currently Amended) The apparatus of claim 13, wherein the mark information includes a first mark associated with the first image and a second mark associated with the second image, the first and second marks providing the presentation information on the first and second images, respectively, and the mark information indicates a number of marks in the mark information.

23. (Previously Presented) The apparatus of claim 22, wherein the first mark includes a first indicator indicating at least a stream of data where the first mark is placed; and the second mark includes a second indicator indicating at least a stream of data where the second mark is placed.

24. (Previously Presented) The apparatus of claim 22, wherein the first mark includes a first indicator indicating a point in a playitem where the first mark is placed and wherein the second mark includes a second indicator indicating a point in a playitem where the second mark is placed.

25. (Previously Presented) The apparatus of claim 22, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark.

26. (Currently Amended) The apparatus of claim ~~22~~13, wherein the at least one still image is reproduced independently from the audio data based on the playlist file, and the playlist file is separated from the first and second clip stream files~~the mark information indicates a number of marks in the mark information.~~

27. (Currently Amended) The apparatus of claim ~~22~~13, wherein the playlist file includes second still information indicating a duration of the still image when the first still information indicates to display the still picture for the finite period of time~~the first mark points to the first still image and the second mark points to the second still image.~~

28. (Currently Amended) The method of claim 14, wherein the mark information includes a first mark associated with the first image and a second mark associated with the second image, the first and second marks providing the presentation information on the first and second images, respectively, and

the mark information indicates a number of marks in the mark information.

29. (Previously Presented) The method of claim 28, wherein the first mark includes a first indicator indicating a playitem where the first mark is placed, and wherein the second mark includes a second indicator indicating a playitem where the second mark is placed.

30. (Previously Presented) The method of claim 28, wherein the first mark includes a first indicator indicating a point in a playitem where the first mark is placed and wherein the second mark includes a second indicator indicating a point in a playitem where the second mark is placed.

31. (Previously Presented) The method of claim 28, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark.

32. (Currently Amended) The method of claim ~~28~~14, wherein the at least one still image is reproduced independently from the audio data based on the playlist file, and the playlist file is separated from the first and second clip stream files~~the mark information indicates a number of marks in the mark information.~~

33. (Currently Amended) The method of claim ~~28~~14, wherein the playlist file includes second still information indicating a duration of the still image when the first still information indicates to display the still picture for the finite period of time~~the first mark points to the first still image and the second mark points to the second still image.~~

34. (Currently Amended) The apparatus of claim 15, wherein the mark information includes a first mark associated with the first image and a second mark associated with the second image, the first and second marks providing the presentation information on the first and second images, respectively, and the mark information indicates a number of marks in the mark information.

35. (Previously Presented) The apparatus of claim 34, wherein the first mark includes a first indicator indicating a playitem where the first mark is placed, and wherein the second mark includes a second indicator indicating a playitem where the second mark is placed.

36. (Previously Presented) The apparatus of claim 34, wherein the first mark includes a first indicator indicating a point in a playitem where the first mark is placed and wherein the second mark includes a second indicator indicating a point in a playitem where the second mark is placed.

37. (Previously Presented) The apparatus of claim 34, wherein the first mark includes a type indicator indicating a type of the first mark, and the second mark includes a type indicator indicating a type of the second mark.

38. (Currently Amended) The apparatus of claim ~~34~~15, wherein the at least one still image is reproduced independently from the audio data based on the playlist file, and the playlist file is separated from the first and second clip stream files~~the mark information indicates a number of marks in the mark information.~~

39. (Currently Amended) The apparatus of claim ~~34~~15, wherein the playlist file includes second still information indicating a duration of the still image when the first still information indicates to display the still picture for the finite period of time~~the first mark points to the first still image and the second mark points to the second still image.~~